In the Claims:

- 1. Method of operation of a control system controlling a radio network for cellular/mobile communications onboard a vessel enabling said vessel to move freely without interfering with other radio transmissions in the same area, characterised by that the control system uses data from a database containing information regarding frequency availability in regulated and unregulated areas, combined with data from a positioning system in order to determine which radio frequencies are available to said radio network at the vessel's current position, and where the control system further uses information from a radio sensor, regarding the radio environment in order to determine whether frequencies listed as available in the database are unavailable due to the other radio transmission in the area.
- Method according to claim 1, characterised by that the control system upon detection of a change in radio environment by the radio sensor, makes decisions regarding:

whether any frequency not in use by the radio network has become freely available;

whether any frequency not in use by the radio network has become available to the radio network for transmissions that does not propagate outside the vessel;

whether any frequency in use by the radio network has become unavailable to the radio network for transmissions that does not propagate outside the vessel; and

whether any frequency currently in use by the radio network has become totally unavailable to the radio network.

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